

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S51	26562	(optic\$3-electric\$3 or opto-electric\$3 or o/e or (optic\$3 near2 electric\$3) or (opto near2 electric\$3) or optic-electric\$3) with (conver\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/05 17:02
S52	1080	((optic\$3-electric\$3 or opto-electric\$3 or o/e or (optic\$3 near2 electric\$3) or (opto near2 electric\$3) or optic-electric\$3) with (conver\$4 near2 circuit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/05 16:42
S53	1180	((optic\$3-electric\$3 or opto-electric\$3 or o/e or (optic\$3 near2 electric\$3) or (opto near2 electric\$3) or optic-electric\$3) with (conver\$4 near2 circuit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:02
S54	116	((optic\$3-electric\$3 or opto-electric\$3 or o/e or (optic\$3 near2 electric\$3) or (opto near2 electric\$3) or optic-electric\$3) with (conver\$4 near2 circuit)) same modulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:43
S55	102	S54 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:27

## EAST Search History

S56	101	(bpic and rpic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:51
S57	22	S56 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S58	1	("6735731").PN.	USPAT	OR	OFF	2006/12/05 16:54
S59	5	("5228042"   "5781682"   "6012855"   "6201829").PN. OR ("6735731").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/05 16:55
S60	1	("5448661").PN.	USPAT	OR	OFF	2006/12/05 16:55
S61	13	("5202940"   "5253094").PN. OR ("5448661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/05 17:00
S62	1811	S51 and (((transmission or transmit\$4) near2 (chip or unit or circuit)) same ((receiv\$4 or reception or detect\$3) near2 (chip or unit or circuit)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/05 17:03
S63	835	S62 and modulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/05 17:03

## EAST Search History

S64	251	S62 and (modulat\$3 with ((electronic or electric\$3) near2 signal))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/05 17:03
S65	190	S64 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:04
S66	0	("2003/0138256").URPN.	USPAT	OR	OFF	2006/12/05 17:05
S67	467	(((photonic near2 band-gap) or (photonic near2 bandgap) or pbg) with (crystal or crystalline)) and ((detector or photodetector or photodiode or receiver or receiving))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:26
S68	467	(((photonic near2 band-gap) or (photonic near2 bandgap) or pbg) with (crystal or crystalline)) and ((detector or photodetector or photodiode or receiver or receiving))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:26
S69	467	(((photonic near2 band-gap) or (photonic near2 bandgap) or pbg) with (crystal or crystalline)) and ((detector or photodetector or photodiode or receiver or receiving))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:26

## EAST Search History

S70	7	(photonic near2 (crystal or crystalline)) and ((demodulator or de-modulator or decoder or de-coder) with (detector or photodetector or photodiode))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:26
S71	263	S67 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:41
S72	517	(first near2 (circuit or unit or chip)) and ((electric\$3 near2 signal) with modulat\$3) and (modulators) and (optic\$3 near2 signal) and (photo-diode or photodiode or photo-detect\$3 or photodetect\$3 or detector\$3 or receiv\$3 or reception) and (second near2 (circuit or unit or chip)) and (process\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:38
S73	386	S72 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:41
S74	13	("4290146"   "4295094"   "4533857"   "4810891"   "4838032"   "4905309"   "4929842"   "5119132").PN. OR ("5453866").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/05 17:50
S75	12	("4402090"   "4434510").PN. OR ("4905309").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/05 17:51
S76	1	("5448661").PN.	USPAT	OR	OFF	2006/12/06 12:02
S77	1	S76 and (modulat\$3)	USPAT	OR	OFF	2006/12/06 12:04
S78	0	10/684,278	USPAT	OR	OFF	2006/12/06 12:04

## EAST Search History

S79	2	10/684,278		US-PGPUB; USPAT	OR	OFF	2006/12/06 12:04
S80	2	S79 and modulators		US-PGPUB; USPAT	OR	OFF	2006/12/06 12:16
S81	1	("6735731").PN.		USPAT	OR	OFF	2006/12/06 12:16
S82	0	S81 and modulat\$3		USPAT	OR	OFF	2006/12/06 12:33
S83	7	(laser near2 array) same ((modulat\$3 near2 array) with (electric\$3 near2 signal))		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:34
S84	0	(laser near2 array) same ((modulat\$3 near2 array) with (electronic near2 signal))		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:33
S85	7062	((laser or transmit\$4 or transmission or transceiv\$3) near2 (array or plurality)) with (modulat\$3)		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:35
S86	59	((laser or transmit\$4 or transmission or transceiv\$3) near2 (array or plurality)) with (modulat\$3)) same ((electric\$3 or electronic) near2 (control\$4))		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:39

## EAST Search History

S87	66	((laser or transmit\$4 or transmission or transceiv\$3) near2 (array or plurality)) with (modulat\$3)) same ((electric\$3 or electronic or electrically) near2 (control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:36
S88	2957	((laser or transmit\$4 or transmission or transceiv\$3) near2 (array or plurality)) with (modulat\$3)) and ((detect\$3 or photodetect\$3 or photo-detect\$3 or receiv\$3) near2 (array or plurality))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:42
S89	3	S87 not S86	USPAT	OR	OFF	2006/12/06 12:41
S90	2249	S88 and (chip or circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:42
S91	1670	S90 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:47
S92	684	((398/128) or (398/129) or (398/130) or (398/131)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 12:45

## EAST Search History

S93	100	(398/156).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 12:45
S94	286	(398/164).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 12:45
S96	1009	S92 or S93 or S94	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/06 12:46
S97	1670	S91 and modulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:47
S98	559	S96 and modulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 12:48

## EAST Search History

S99	110	("3573459"   "4022647"   "4232219"   "4612670"   "4614873"   "4626878"   "4776659"   "5028110").PN. OR ("5093879").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 13:05
S10 0	25	("4232219"   "4614873"   "4890894"   "4903340"   "4906197"   "4915466"   "5073041"   "5093879"   "5133032"   "5134508"   "5202567"   "5212754"   "5241612").PN. OR ("5475215").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 13:07
S10 1	13	("4063083"   "4612670"   "4695120"   "4720634"   "4892376"   "5008554").PN. OR ("5202567").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 13:16
S10 2	192	(architecture with (interconnect\$4 near2 (circuit)))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 13:16
S10 3	300	(architecture with (interconnect\$4 near2 (circuit)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/06 13:16